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Feb 1, 2001

DERWENT-ACC-NO: 1997-291240

DERWENT-WEEK: 200210

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TITLE: Impact additive for thermoplastic polymer used as material in building - has alkyl acrylate elastomeric core and shell based on alkyl polymethacrylate or styrene!-acrylonitrile! copolymer

INVENTOR: BERTELO, C; DARGELOS, P ; DRUJON, X ; LERMITE, A ; MEUNIER, G

PATENT-ASSIGNEE:

ASSIGNEE

ELF ATOCHEM NORTH AMERICA INC

ATO FINA CHEM INC

CODE

AQOR

AQOR

PRIORITY-DATA: 1995FR-0012706 (October 27, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 277053 B	February 1, 2001		000	C08F299/00
EP 776915 A2	June 4, 1997	F	016	C08F265/04
CA 2188890 A	April 28, 1997	F	000	C08F265/06
JP 09216967 A	August 19, 1997		014	C08K007/16
EP 776915 A3	October 1, 1997		000	C08F265/04
KR 97021114 A	May 28, 1997		000	C08F299/00
US 5773520 A	June 30, 1998		000	C08L069/00
JP 2992236 B2	December 20, 1999		014	C08F285/00
TW 360665 A	June 11, 1999		000	C08F212/10
CA 2188890 C	July 18, 2000	F	000	C08F265/06

DESIGNATED-STATES: AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

CITED-DOCUMENTS:EP 269324; EP 477886 ; EP 536935 ; FR 2090558

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 277053B	October 26, 1996	1996KR-0048944	
KR 277053B		KR 97021114	Previous Publ.
EP 776915A2	October 24, 1996	1996EP-0402264	
CA 2188890A	October 25, 1996	1996CA-2188890	
JP 09216967A	October 28, 1996	1996JP-0302467	
EP 776915A3	October 24, 1996	1996EP-0402264	
KR 97021114A	October 26, 1996	1996KR-0048944	
US 5773520A	October 28, 1996	1996US-0738768	
JP 2992236B2	October 28, 1996	1996JP-0302467	
JP 2992236B2		JP 9216967	Previous Publ.
TW 360665A	November 2, 1996	1996TW-0113369	
CA 2188890C	October 25, 1996	1996CA-2188890	

INT-CL (IPC): C08 F 212/10; C08 F 220/18; C08 F 265/04; C08 F 265/06; C08 F 283/12; C08 F 285/00; C08 F 291/02; C08 F 299/00; C08 K 7/16; C08 L 51/06; C08 L 55/00; C08 L 69/00; C08 L 101/00; C08 L 51/00; C08 L 101/00; C08 L 51/00; C08 L 101/00

ABSTRACTED-PUB-NO: EP 776915A
BASIC-ABSTRACT:

Impact additive of core/shell type consists of 70-90 wt.% core based on alkyl acrylate and 30-10 wt.% shell based on alkyl polymethacrylate or styrene-acrylonitrile copolymer. Cross-linked elastomeric core comprises 20-100 pref. 20-90 wt.% nucleus consisting of copolymer(I) of 5-12C alkyl acrylate or mixt. of 2-12C alkyl acrylates or a polyorganosiloxane rubber, and 0.05-5 wt.% polyfunctional cross-linking agent contg. unsatd. groupings of which at least one is vinylic and, eventually, polyfunctional grafting agent contg. unsatd. groupings of which at least one is allylic; and up to 80 wt.% outer layer consisting of copolymer(II) of 4-12C alkyl acrylate or mixt. of alkyl acrylates as in (I), and 0.05-0.25 wt.% grafting agent with unsaturated groupings of which at least one is allylic. Shell grafted onto core comprises 1-4C alkyl methacrylate polymer, or a statistical copolymer of 1-4C alkyl methacrylate and 1-8C alkyl acrylate contg. 5-40 mol.% alkyl acrylate, or styrene-acrylonitrile copolymer. Also claimed is a compsn. contg. the additive.

USE - In materials for building industry and for mfr. of water pipes.

ADVANTAGE - Compsns. with the additive have improved shock resistance at ambient and low temps..

ABSTRACTED-PUB-NO:

US 5773520A

EQUIVALENT-ABSTRACTS:

Impact additive of core/shell type consists of 70-90 wt.% core based on alkyl acrylate and 30-10 wt.% shell based on alkyl polymethacrylate or styrene-acrylonitrile copolymer. Cross-linked elastomeric core comprises 20-100 pref. 20-90 wt.% nucleus consisting of copolymer(I) of 5-12C alkyl acrylate or mixt. of 2-12C alkyl acrylates or a polyorganosiloxane rubber, and 0.05-5 wt.% polyfunctional cross-linking agent contg. unsatd. groupings of which at least one is vinylic and, eventually, polyfunctional grafting agent contg. unsatd. groupings of which at least one is allylic; and up to 80 wt.% outer layer consisting of copolymer(II) of 4-12C alkyl acrylate or mixt. of alkyl acrylates as in (I), and 0.05-0.25 wt.% grafting agent with unsaturated groupings of which at least one is allylic. Shell grafted onto core comprises 1-4C alkyl methacrylate polymer, or a statistical copolymer of 1-4C alkyl methacrylate and 1-8C alkyl acrylate contg. 5-40 mol.% alkyl acrylate, or styrene-acrylonitrile copolymer. Also claimed is a compsn. contg. the additive.

USE - In materials for building industry and for mfr. of water pipes.

ADVANTAGE - Compsns. with the additive have improved shock resistance at ambient and low temps..

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: IMPACT ADDITIVE THERMOPLASTIC POLYMER MATERIAL BUILD ALKYL ACRYLATE ELASTOMER CORE SHELL BASED ALKYL POLYMETHACRYLATE POLYSTYRENE POLYACRYLONITRILE COPOLYMER

DERWENT-CLASS: A18 A28

CPI-CODES: A04-C04; A04-D03; A04-F06; A06-A00E; A08-M09B; A12-H02; A12-R01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; G0340*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D88 D89 D90 D91 D92 D93 D85 D86 D87 ; G0817*R D01 D51 D54 G0975*R D55 D12 D10 D27 D11 D58 H0215 H0146 ; G0340*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D87 D88 D89 D90 D91 D92 D93 D84 D85 D86 H0146 ; G0384*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D85 D86 D87 D88 H0146 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 H0146 ; R00817 G0475 G0260 G0022 D01 D12

D10 D26 D51 D53 D58 D83 F12 H0146 ; A999 A782 ; A999 A293 ; H0011*R ; H0022 H0011 ;
H0033 H0011 ; H0088 H0011 ; H0113 H0011 ; H0124*R ; S9999 S1489 S1478 S1456 ; M9999
M2073 ; S9999 S1490 S1478 S1456 ; S9999 S1489 S1478 S1456 ; S9999 S1490 S1478 S1456 ;
S9999 S1490 S1478 S1456 ; P1741 ; P0088 ; P0157 ; P1876 Polymer Index [1.2] 018 ; D01 ;
G2266*R D01 Si 4A D12 D10 D27 D11 D58 H0215 ; G0340*R G0339 G0260 G0022 D01 D12 D10 D26
D51 D53 D58 D63 F41 F89 D11 D87 D88 D89 D90 D91 D92 D93 D84 D85 D86 H0146 ; G0384*R
G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D85 D86 D87 D88 H0146 ;
R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 H0146 ; R00817 G0475
G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12 H0146 ; A999 A782 ; A999 A293 ; H0011*R
; H0033 H0011 ; H0088 H0011 ; H0124*R ; P1445*R F81 Si 4A ; S9999 S1489 S1478 S1456 ;
M9999 M2073 ; S9999 S1489 S1478 S1456 ; S9999 S1490 S1478 S1456 ; S9999 S1490 S1478
S1456 ; P1741 ; P0088 ; P1876 Polymer Index [1.3] 018 ; G0373 G0340 G0339 G0260 G0022
D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D88 D90 D91 D93 H0146 ; R24055 G0340 G0339
G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63 D89 F41 F89 H0146 ; R01130 G0351 G0340
G0339 G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63 D87 F41 F89 H0146 ; R00479 G0384
G0339 G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63 D85 F41 F89 H0146 ; G0986 G0975
D01 D51 D55 E01 E00 D12 D10 D27 D11 D57 D58 D59 D63 D90 F90 F41 H0215 H0146 ; R24004
G0873 G0895 G0817 D01 D11 D10 D12 D26 D54 D57 D51 D58 D63 D90 F41 F90 H0215 H0146 ;
R01479 G0873 G0817 D01 D12 D10 D26 D27 D51 D54 D57 D58 D63 D86 F41 F89 H0215 H0146 ;
R00637 G0873 G0817 D01 D12 D10 D26 D27 D51 D54 D57 D58 D63 D87 F41 F89 H0215 H0146 ;
A999 A782 ; A999 A293 ; H0011*R ; H0022 H0011 ; H0033 H0011 ; H0088 H0011 ; H0113 H0011
; S9999 S1489 S1478 S1456 ; S9999 S1490 S1478 S1456 ; H0124*R ; M9999 M2073 ; S9999
S1489 S1478 S1456 ; S9999 S1490 S1478 S1456 ; P0088 Polymer Index [1.4] 018 ; B9999
B5016*R B4977 B4740 Polymer Index [2.1] 018 ; H0317 ; P0895 P1978 P0839 H0293 F41 D01
D11 D10 D19 D18 D31 D50 D63 D92 E21 E00 Polymer Index [2.2] 018 ; G0260*R G0022 D01 D12
D10 D26 D51 D53 ; H0000 ; H0011*R ; H0317 ; P0088 Polymer Index [2.3] 018 ; R00338
G0544 G0022 D01 D12 D10 D51 D53 D58 D69 D82 C1 7A ; H0317 ; H0000 ; H0011*R ; P1796
P1809 Polymer Index [2.4] 018 ; G0806 G0022 D01 D51 D53 D12 D10 D58 D69 D82 F* 7A ;
H0000 ; H0317 Polymer Index [2.5] 018 ; ND00 ; K9745*R ; ND04 ; Q9999 Q6826*R ; Q9999
Q8731 Q8719 ; B9999 B4159 B4091 B3838 B3747 ; B9999 B3178 ; K9665 ; K9370 Polymer Index
[2.6] 018 ; A999 A293 Polymer Index [3.1] 018 ; G0373 G0340 G0339 G0260 G0022 D01 D12
D10 D26 D51 D53 D58 D63 F41 F89 D11 D91 H0146 ; R24004 G0873 G0895 G0817 D01 D11 D10
D12 D26 D54 D57 D51 D58 D63 D90 F41 F90 H0215 ; G0986 G0975 D01 D51 D55 E01 E00 D12 D10
D27 D11 D57 D58 D59 D63 D90 F90 F41 H0215 H0146 ; H0033 H0011 ; H0088 H0011 ; H0124*R ;
L9999 L2528 L2506 ; L9999 L2551 L2506 ; M9999 M2073 ; S9999 S1489 S1478 S1456 ; A999
A782 ; A999 A293 ; P0088 Polymer Index [3.2] 018 ; B9999 B5016*R B4977 B4740 Polymer
Index [3.3] 018 ; R01695 D00 H* O* 6A S* Na 1A ; R01737 D00 F48 F60 K* 1A O* 6A S* ;
C999 C099 C088 C000 ; C999 C340 ; C999 C293 ; C999 C088*R C000 Polymer Index [3.4] 018
; D00 F52 Na 1A P* 5A O* 6A H* ; R05327 D01 D11 D10 D50 D61 D92 F60 Na 1A ; A999 A635
A624 A566 ; A999 A771

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-093850

Set Name Query

side by side

Hit Count Set Name
result set*DB=PGPB; PLUR=YES; OP=ADJ*L12 110 and L1123 L12L11 graftlinker or linking or graftlinking or grafting agent8625 L11L10 core same L9140 L10L9 16 or 17 or 182313 L9L8 polyorganosiloxane near3 elastomeric or silicone near3 elastomeric
polydimethylsiloxane near3 elastomer1 L8L7 polyorganosiloxane near3 elastomer or silicone near3 elastomer
polydimethylsiloxane near3 elastomer5 L7L6 polyorganosiloxane near3 rubber or silicone near3 rubber or silicone
near3 elastomer or polydimethylsiloxane near3 rubber2312 L6L5 5773520 or 776915 or 2188890 or 09216967 or 2992236 or 3606650 L5*DB=USPT; PLUR=YES; OP=ADJ*L4 5773520 or 776915 or 2188890 or 09216967 or 2992236 or 36066522 L4*DB=PGPB; PLUR=YES; OP=ADJ*L3 L20 L3*DB=USPT; PLUR=YES; OP=ADJ*L2 us5773520 or ep776915 or ca2188890 or jp09216967 or jp2992236
or tw3606650 L2*DB=DWPI; PLUR=YES; OP=ADJ*L1 57735201 L1

END OF SEARCH HISTORY

Set Name Query

side by side

Hit Count Set Name
result set*DB=PGPB; PLUR=YES; OP=ADJ*L12 110 and L1123 L12L11 graftlinker or linking or graftlinking or grafting agent8625 L11L10 core same L9140 L10L9 16 or 17 or 182313 L9L8 polyorganosiloxane near3 elastomeric or silicone near3 elastomeric
polydimethylsiloxane near3 elastomer1 L8L7 polyorganosiloxane near3 elastomer or silicone near3 elastomer
polydimethylsiloxane near3 elastomer5 L7L6 polyorganosiloxane near3 rubber or silicone near3 rubber or silicone
near3 elastomer or polydimethylsiloxane near3 rubber2312 L6L5 5773520 or 776915 or 2188890 or 09216967 or 2992236 or 3606650 L5*DB=USPT; PLUR=YES; OP=ADJ*L4 5773520 or 776915 or 2188890 or 09216967 or 2992236 or 36066522 L4*DB=PGPB; PLUR=YES; OP=ADJ*L3 L20 L3*DB=USPT; PLUR=YES; OP=ADJ*L2 us5773520 or ep776915 or ca2188890 or jp09216967 or jp2992236
or tw3606650 L2*DB=DWPI; PLUR=YES; OP=ADJ*L1 57735201 L1

END OF SEARCH HISTORY